

Weekly Report

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2017.11.06 - 2017.11.12

1 Projects

1.1 DeepVis Review

The current results of the new revision are attached. Revised parts and answers in the response letter is marked as red text, while blue texts are results that need to be added.

Main remained work:

- Perform the user study 2;
- Plot comparing results in the first discussion, and
- Draw activation maps of CNN layers mentioned in the second discussion.

1.2 Predictive Traffic Flow Analysis

- On Wednesday we generated some temporal prediction results of flows between linked crossings with ARIMA model. A typical prediction result is plotted in Figure 1 where the prediction result is in red line and original test data in blue. The average prediction error depends on temporal trends and outliers of each edges.

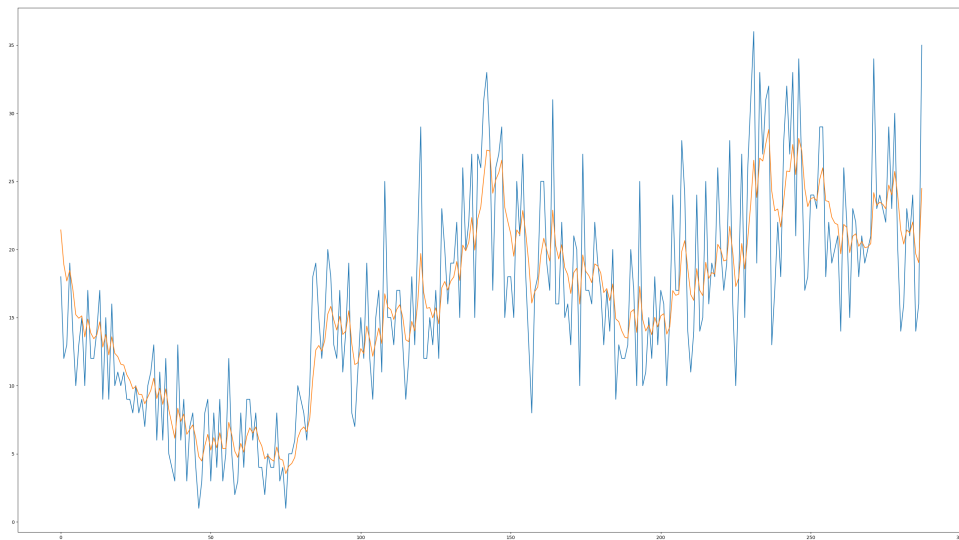


Figure 1: The prediction result (in red) and the original value (in blue).

- On Thursday we also discussed about assigning of tasks. Currently Kezhi Kong is generating more prediction results with K-NN, LSTM and SARIMA models, Chentao Ye is learning web development in order to start implementing the interface, and I am organizing related papers for writing related works.

1.3 Misc.

- Beihang-Tsukuba-Zheda University Workshop from Friday to Sunday.

Table 1: Plan for the Next Week

Target Date	Project	Progress	Problems
11.12	DeepVis Revision	Some results generated	Finish it
2018.01.15	Predictive Traffic Network Flow Analysis	Generating prediction results	Related works; use more types of models